

**ABSTRACT**

Device for contactless measurement of wall thickness of container glass of transparent object (1) with a front side (1.1) and an inner side (1.2) comprising a first illuminating surface (11) and a second illuminating surface (21) for generating diverging light beams; a first lens (12) and a second lens (22) for generating parallel light beams from the diverging light beams generated by the illuminating surfaces (11) and (21) respectively; a first semi-permeable mirror (13) a second semi-permeable mirror (23) for selective light beams reflection or transmission; a first objective (14) and a second objective (24) for focusing and generating parallel light beams; a first sensor (16) and a second sensor (26); a third lens (15) and a fourth lens (25) for focusing light beams onto the first sensor (16) and the second sensor (26) respectively; a controller (3) for averaging values determined by the first sensor (16) and the second sensor (26).